

1040nm High Power 4-port PM Circulator for Pulse Power

FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

APPLICATIONS

- Fiber Optic Amplifiers
- Fiber Optic Instruments
- WDM Systems
- Dispersion Compensation
- Light Routing

SPECIFICATIONS

| Parameter | | Unit | Value |
|----------------------------------|--------|------|--|
| Center Wavelength | | nm | 1040 |
| Operating Wavelength Range | | nm | +/-10 |
| Insertion Loss@ 23 °C | (Typ.) | dB | 0.9 |
| | (Max.) | dB | 1.7 |
| Optical Path | C Type | - | 1➡2, 2➡3, 3➡4 (Loss:4➡1 is Uncontrolled) |
| | D Type | - | 1➡2, 2➡3, 3➡4, 4➡1 |
| | E Type | - | 1➡2, 2➡3, 3➡4 (4➡1 is Isolated) |
| Isolation @ 23 °C | (Typ.) | dB | 22 |
| | (Min.) | dB | 20 |
| Optical Return Loss | | dB | ≥45 |
| Extinction Ratio | | dB | ≥18 |
| Work Mode | S Type | - | Can only work in slow axis |
| | F Type | - | Can work both in Slow and Fast Axis |
| Fiber Type | | - | PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L) |
| | | | 10/125um PMDC Fiber (O) or 15/130um PMDC Fiber (W) |
| | | | 20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R) |
| Fiber Tensile Load | | N | 5 |
| Max. Total Average Optical Power | | W | 0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30 |
| Max. Peak Power for Pulse | | kW | 0.1, 1, 2, 3, 5, 10, 15, 20 |
| Operating Temperature | | °C | 0~50 |
| Storage Temperature | | °C | -20~75 |

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

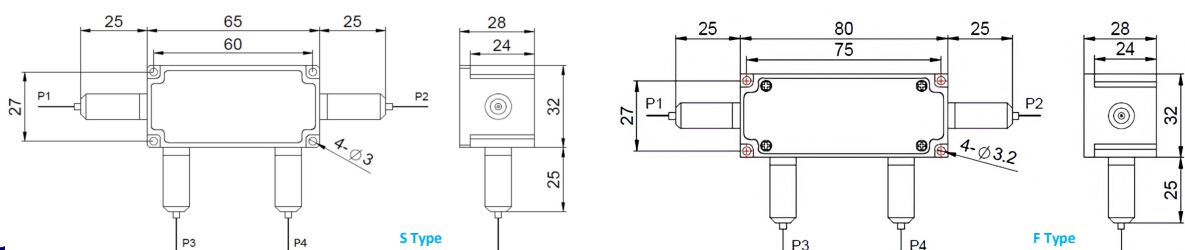
2. To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

4. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

5. Package size may be different for different optical power, configuration and fiber types.

PACKAGE DIMENSION



ORDERING INFORMATION

| FPCR- NNNN - (C) | (C) | -4H NN | PNN | -(NN/NN) | -(NN) | - C | C | NN | -CC/CCC | |
|-------------------|------------------|------------------|----------------------|------------|---------------------|------------------|---------------------|---------------|--------------|-------------------------|
| Center Wavelength | Work Mode | Optical Path | Average Power[Total] | Peak Power | Average Power P2/P3 | Average Power P4 | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
| 1040-1040nm | F=F Type | D=D Type | 03= 300mW | 01=100W | 1= 1W | 1= 1W | 2=PM980Fiber | B= Bare Fiber | 05=0.5m | N=Without Connector |
| | Blank for S Type | E=E Type | 5= 5 Watts | 1= 1kW | 2= 2W | 2= 2W | E=PM1060L Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| | | Blank for C Type | 10= 10 Watts | 5=5kW | 5=5W | 5=5W | Q=20/130 PMDC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| | | | 25= 25 Watts | 10=10kW | Blank for P2/3=P1 | Blank for None | R=25/250 PMDC Fiber | 3= 3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector |